

*Columbia University  
College of Dental Medicine*

*Student  
Research  
Opportunities*

*Overview of CDM Research Training Program  
Opportunities Available at CDM  
Opportunities Available Outside of CDM*

# Student Research at CDM

## Overview

The generation of new knowledge through research is an integral and highly-valued activity at Columbia University's College of Dental Medicine. The school's history is rich with significant connections to the evolution of modern dental research - both the *American Association for Dental Research* (AADR) and the *Journal of Dental Research* were founded by CDM faculty member Dr. William Gies - and this tradition has been reflected in the student research program. The strength and constancy of the dental student research tradition at CDM is demonstrated by the 50 year history of the William Jarvie Research Honor Society (the dental student research group) and the Birnberg Student Research Day, both established at Columbia in the 1950's and continuing vigorously to this day. The school continues to be a supportive environment for student participation in the exciting discoveries of biomedical research both at the University and beyond.

The goal of the CDM student research training program is to encourage and support those students who wish to participate in research during their DDS or postdoctoral specialty training, and to encourage the consideration of research related careers as part of students' career choices. Research training provides many benefits, including an appreciation for the process of discovery, a sharpening of the knowledge and skills needed to read and interpret new findings that may be incorporated into clinical care decisions, as well as possibly providing the introduction to a career in academic dentistry. The faculty of this school believes that dentists who seek new knowledge through clinical and/or basic science research make invaluable contributions to the dental profession and the public good.

**When will I have time to do research? What research will I do? How will I find the right mentor?**

**When will I have time to do research?**

The predoctoral dental school curriculum is well-known for the demands it places on students' time. Nonetheless, there are a number of formal opportunities within the four year DDS program for CDM predoctoral students to participate in research projects, and interested students may also make additional or alternative

arrangements. The following describes the formal opportunities that have been utilized by dental students for research. In a few cases students have begun research during the summer prior to the start of first year classes. For most students, however, the first opportunity for research while at CDM is the relatively long summer break between first and second year, with varying amounts of additional time spent during the second year 'writing-up' their results in the form of poster for presentation at the school's annual Birnberg Research Program and an abstract for publication in the Journal of the William Jarvie Society. Students may subsequently continue with research during the third and fourth years. Some third and fourth year students select Research as their area of concentration. Selecting the Research area of concentration is not required, although it does provide the student with additional time 'within the curriculum' for research.

## Opportunities for research and the CDM Research Track

Taken together these opportunities form a 'research track' allowing students an extended opportunity to pursue one or more research projects.

In addition to research projects within the dental school and elsewhere on the Columbia University campus, students are encouraged to make use of the research training opportunities at the National Institute of Dental and Craniofacial Research (the dental institute of the NIH), as well as other appropriate labs, both US and international.

For a limited number of students doing research during the summer, a modest stipend is provided by a CDM Summer Research Fellowships, funded by the Dean's office and corporate sponsors. Additional stipends for student research are available through the Gies fellowship; the school's Research Assistant (RA) program for third and fourth year students; the Moss Scholarship for study abroad in the Netherlands; NIH intramural research fellowships; the David E. Rogers Fellowship; and occasionally through the projects in which students work.

### And what research will I do?

Speaking generally, within basic research there are two types of research projects. In one case the student's research is part of a larger program of research that is ongoing in a faculty member's lab or office. The student has a well-defined project that builds on results previously obtained by the mentor's research group and advances the overall progress of the research. Note that neither the overall research

nor the student's specific project is student conceived, although dependent on background, experience, and the progress of the project the student may expect to gain opportunities for contributing to the direction of his work as his project develops. To participate in this type of research the student needs to have an interest and enthusiasm for the mentor's ongoing work, starting with a basic understanding of the mentor's research area and program.

At the other end of the spectrum is a type of research, more likely to be found within the social and behavioral sciences, in which the student is encouraged or may be required to suggest and design a project on his/her own. In this case the student needs to find a mentor knowledgeable in the student's area of interest who is also amenable to a 'student conceived' project.

### How do I find the right mentor?

The "prime directive" in the exploration of research opportunities is to find a research project in which you will participate to your fullest. Students who work on a problem that fascinates them will put considerable energy into their research projects and get the most out of the experience.

Finding a research project that you believe is important and which you will enjoy may well require some work on your part. You cannot simply email a faculty member and request that he or she tell you about his/her research. Having at least some preliminary information about the faculty member's research will help you gauge your potential interest. There are several sources of information you may find useful:

- Upper level students and members of the Jarvie Society.
- The Jarvie Journal provides a good record of the research that CDM students have participate in. The Journal of the William Jarvie Society is an annual publication that contains abstracts of student research conducted during the previous year. Complete PDF files of recent issues of the Jarvie Journal are available on the CDM website under the heading 'Publications'.
- The Directory of Research Mentors for CDM Students. The Directory contains entries with research interests and contact information for many of the mentors who have supervised CDM student research.
- Columbia University Schools, Departments, and divisions have websites with links to their research programs. Individual faculty members, labs and research groups also have websites that highlight areas of ongoing research.

Special programs (for example the MD/PhD program [<http://156.111.235.11/pharm/mdphd/facultyDirectory.php>] and the Graduate School of Arts and Sciences at CUMC [<http://www.cumc.columbia.edu/dept/gsas/research/index.html>]) also have websites with listings of research faculty.

- The CDM Office of Research Administration will help guide you in your search.

# Research Opportunities Available at CDM and CU

Students are encouraged to meet and consult with potential faculty advisors for assistance identifying research opportunities, and consultation with upperclassmen is highly recommended. Medical research and dental research share broad areas of conceptual, scientific and methodological common ground, and the Health Sciences Campus contains a vast number of research opportunities available for dental student participation and students are encouraged to seek research experience with laboratories or faculty outside the dental school faculty. Historically about one half of the DDS students tend to work with mentors on the CDM faculty and one half work with mentors from the medical school, school of public health, engineering, and arts and sciences. The following section is designed to help students identify research opportunities and CDM and CU. Information on fellowships, stipends and research awards available from CDM is also provided.

# Research Mentor Directory for CDM Students

<http://dental.columbia.edu/research/Research%20Mentor%20Directory%205a.pdf>

## *CDM Contact*

*Carol Kunzel, PhD, [ck60@columbia.edu](mailto:ck60@columbia.edu)*

*212-305-1405*

The Research Mentor Directory for CDM Students is a database provided to help students identify a mentor with research activities that match the student's interest.

Mentors are referenced by their areas of research, and the mentor entries include brief general descriptions of their projects, selected references to recently published research articles, contact information, and expected time commitment.

It is strongly recommended that students read one or more of a potential mentor's literature references prior to contacting the mentor. Students are welcome to discuss questions regarding mentor selection with Dr. Kunzel.

# The William Jarvie Society

## *CDM Advisors*

*Carol Kunzel, PhD, [ck60@columbia.edu](mailto:ck60@columbia.edu)*

*212-305-1405*

*Jeremy Mao, DDS, PhD, [jm2654@columbia.edu](mailto:jm2654@columbia.edu)*

*2010-'11 Membership dues: \$15/ annually basic; \$35/annually includes student membership in AADR/IADR*

The William Jarvie Society (WJS) is the Columbia chapter of the American Association of Dental Research (AADR) - Student Research Group. Originally organized in 1920 to promote interest in research by dentists and dental students, the WJS carries forward its mission today through a number of activities that support CDM student research and emphasize the role of research in the development and practice of modern dentistry. Approximately 25% of the students in the DDS program are members. The Jarvie executive committee and faculty advisors work to acquaint interested students with research opportunities at the medical center and beyond. One of the society's goals is to enable every interested Columbia dental student to have a satisfying and productive research experience. However, it is not a requirement of the Jarvie Society that a member be actively involved in research.

Some activities sponsored or organized by the Jarvie Society include:

- *The Journal of the William Jarvie Society*,  
Published annually, the *Jarvie Journal* contains abstracts of CDM student research presented at the Birnberg Research Program.
- *Jarvie Society lecture series*  
Each year the Jarvie Society selects a theme and arranges several informal lectures on that theme.
- *Birnberg Research Program*  
The annual dental student research program includes table clinic presentations and the Birnberg Lecture delivered by an invited guest lecturer, formal presentation of Birnberg Research Award and the ADA/Dentsply Student Clinician Table Clinic Award.

### ■ *Birnberg Research Award*

The Birnberg Research Award was established by the Alumni Association of the Columbia University College of Dental Medicine in the early 1950s to encourage dental research of excellence and to help stimulate public interest in support of dental research. The award is named in honor of Dr. Frederick Birnberg (1893-1968), class of 1915, who helped to establish a research fund.

The CDM faculty research committee, in conjunction with the school's Alumni Association, considers individuals who have made important contributions to dentistry through both research and mentoring for selection as Birnberg Lecturer and recipient of the Birnberg Research Award. Fifty-one outstanding scientists and teachers have been honored as the Birnberg Lecturer since the first Birnberg Research Award was presented in 1954.

### ■ *ADA/Dentsply Student Clinician Table Clinic Award*

In conjunction with the ADA, Dentsply sponsors a student clinician table clinic competition at the annual national ADA meeting. Each school can select a student to present at this competition in one of two categories: Basic Science or Clinical Studies. A panel of judges from CDM selects the top entry for Columbia based on the research topic and quality of the presentation at Birnberg Day. The winner of the Birnberg Day research competition goes on to compete for the ADA/Dentsply Student Clinician Table Clinic Award at the ADA annual session, courtesy of Dentsply.

All members of the Jarvie Society are eligible for partially subsidized membership in the American Association of Dental Research, the major component of the International Association of Dental Research (IADR; <http://www.iadr.com/>.) AADR membership allows students to apply for various AADR sponsored research fellowships, subscribe to the Journal of Dental Research at a reduced fee, and attend conferences at reduced registration fees. The national and international AADR/IADR research conferences are exciting opportunities to learn of the latest research and they provide settings that facilitate communication and networking of CDM students with students at other schools as well as with established dental investigators. The AADR application serves as the application to the William Jarvie Society. All interested students are encouraged to join.

# The Moss International Research Scholarship for Dental Students

## *CDM Contact*

*Letty Moss-Salentijn, DDS, PhD; lm23@columbia.edu*

*Funding: \$3000 Scholarship*

*Application Deadline: March 1*

*Date: Summer, post academic year I*

*Eligibility: Successful academic performance during first-year CDM curriculum*

This Scholarship was made possible by an anonymous gift from a former student in honor of Professor Melvin L. Moss, Dean Emeritus of the College of Dental Medicine, and Professor Emeritus of Oral Biology and Anatomy.

The Scholarship is available on a competitive basis to a first-year predoctoral student. It provides support for a two-month period in the summer between the first and second years of the predoctoral program. The Scholar will have the unique opportunity to work (in an English-speaking environment) in a dental research laboratory abroad. At present, exchange agreements for such a program exist with several world-renowned research laboratories at the Academic Center for Dentistry in Amsterdam (ACTA) at the University of Amsterdam, The Netherlands. In future years similar agreements may be made with additional laboratories in other countries. First-year students who are interested in applying for the Scholarship are asked to submit a formal application. Application forms and the descriptions of the research programs in the Amsterdam laboratories are available in office of the Dean of Students. Interested students are expected to select a laboratory and to indicate an interest in a particular research project in their applications. Previous research experience (if applicable) will be considered. A faculty committee will review all applications. Finalists may be asked to appear for an interview with members of the CDM Research Committee. As soon as a Scholar has been selected, contacts will be established with the host laboratory in Amsterdam.

# The Dr. Milton G. Schlesinger Award for Excellence in Research

## *CDM Contact*

*Martin J. Davis, DDS; [mjd2@columbia.edu](mailto:mjd2@columbia.edu)*

*Funding: \$2000 Award*

*Eligibility and requirements:*

- *Third year student with proven excellence in academic performance in the School's basic biological and clinical dental courses as determined by the Class Committee;*
- *Recommendations by faculty research mentor;*
- *Written evaluation by the student of past research experience, and the student's description of his or her plans to fulfill future research interests.*

This award was established in December of 1990 in honor of Dr. Milton G. Schlesinger, an alumnus of the College of Dental Medicine, by his niece Ms. Beulah Kramer. The award recognizes a Third Year student who has "conducted meritorious research in basic biological or clinical sciences" and has established an academic record of excellence. The award is announced and presented in May; the funds are applied to the student's Fourth Year tuition

# The William Gies Student Research Scholarship

## *CDM Contact*

*Carol Kunzel, PhD, [ck60@columbia.edu](mailto:ck60@columbia.edu)*

*212-305-1405*

*Eligibility: Participation in substantial research activities during DDS training and plans for a career in academic dentistry.*

The William J. Gies Research Scholarship in Dentistry, which provides greater than \$12,000 for tuition and stipend payments, is presented to a student who plans for a career in academic dentistry and has demonstrated the interest and ability in research that such a career requires. The College of Dental Medicine selects no more than one student from each entering class group as the recipient of the Gies Scholarship. The Scholarship is awarded occasionally, as candidates are identified; no more than one student from each entering class will be selected as a recipient.

This scholarship, initially established by the William J. Gies Foundation for the Advancement of Dentistry, and subsequently funded at CDM by the Dean's Office, recognizes the major contribution made by Dr. William Gies in creating a supportive university environment for the evolution of dental professional training. Dr. Gies was a professor of biochemistry at Columbia during the early part of the 20<sup>th</sup> century. Under the auspices of the Carnegie Foundation, Dr. Gies reviewed the status of dental education in the United States and in 1926 published a report entitled "Dental Education in the United States," which led to the incorporation of all dental schools in the nation within universities. His report also led to the development of dental curricula that strongly emphasized the biological sciences along with the clinical sciences, and that encouraged research and independent study.

# Area of Concentration - Research Track

## *CDM Contact*

*Letty Moss-Salentijn, DDS, PhD; lm23@columbia.edu*

*Selection process for the Area of Concentration in Research begins at the end of academic year II*

The area of concentration program offers a track in research, which allows students who have an interest in exploring a research project to devote a significant number of hours in the laboratory. Students interested in this track are expected to identify and contact a mentor using the research mentors list:

<http://dental.columbia.edu/research/Research%20Mentor%20Directory%205a.pdf>

Once they have secured permission from the mentor they are expected to meet with the research/track leader, Dr. Letty Moss-Salentijn, to arrange for appropriate time assignments and follow-up meetings. Postdoctoral students may be eligible for consideration to enter the MA program in Dental Sciences under the Graduate School of Arts and Sciences as conducted in connection with the College of Dental Medicine.

# Research Assistant (RA)

## *CDM Contact*

Carol Kunzel, PhD, [ck60@columbia.edu](mailto:ck60@columbia.edu)  
212-305-1405

*Funding: see details below*

*Application Deadline: May 1*

*Date: Academic year III & IV*

*Research Assistants* (year III & IV) receive \$2,000 in tuition remission and \$1,000 in cash stipends for a minimum of 5 hours/week of activity during the academic year, exclusive of vacation. Awardees are obligated to write an abstract for publication in the Jarvie Journal and present a poster at Birnberg Day. Students complete the applications in cooperation with the mentor. The exact number of positions is variable and is determined annually. Typically there are ten RA positions selected each year.

## REQUIREMENTS

### SELECTION CRITERIA

- *The Request Form*

To be completed by the student and signed by the faculty preceptor for the assistantship. All requests must include a detailed description of the project and the student's anticipated role.

- *Candidate's Resume.*

Should be up to date and include all research experience.

Selected candidates will receive an official University Appointment as a Research Assistant, and begin processing official paperwork immediately, in conjunction with the Office of the Dean. Several applicants may be designated as alternates, to assume the assistantship if any students selected as RAs are unable to start or complete their appointment.

*Obligations*

- Minimum commitment of 5 hours per week
- Must present at Birnberg Day
- Must provide abstract or article for Jarvie Journal

In CDM Year Two, RA recipients are encouraged to present their Birnberg Day poster at the Greater New York Dental Meeting held in late November

*Note:* RA appointments are obtained *only* through this annual process. Occasionally, faculty has other funds to employ students in capacities similar to RA activities, **but the University title of Research Assistant is not applicable.**

# Columbia Dental Review (CDR)

<http://dental.columbia.edu/pubs.html>

## *CDM Contact*

*Letty Moss-Salentijn, DDS, PhD; lm23@columbia.edu*

*Deadline for submissions: January 31*

*Publication date: May 1*

The Columbia Dental Review (CDR) is an annual publication of Columbia University College of Dental Medicine. This journal is intended to be a clinical publication, featuring case presentations supported by substantial reviews of relevant literature. It is a peer-reviewed journal, edited by the students of the school. The editors are selected on the basis of demonstrated scholarship.

Authors are primarily CDM students from predoctoral and postdoctoral programs, CDM faculty and residents and attendings from affiliated hospitals. Peer reviewers are selected primarily from the CDM faculty. Instructions for authors wishing to submit articles for future additions of the CDR can be found on the last page of published issues of the Journal.

# Student Summer Research Fellowship - *CDM and Corporate sponsors*

## *CDM Contact*

*Carol Kunzel, PhD, [ck60@columbia.edu](mailto:ck60@columbia.edu)*

*212-305-1405*

*Funding: Approximately \$3000 Stipend*

*Deadline: May 1*

*Eligibility: ~~Incoming~~ and First Year CDM students*

Research oriented incoming and first year students may become involved in summer research experiences.

Applications are distributed to all currently enrolled first year students on April 1. Incoming CDM students may request to receive an application by e-mail.

Currently enrolled first year CDM students:

The Predoctoral Student Research Training Fellowships provide stipends for currently enrolled CDM students to conduct research during the summer between their first and second year, under the mentorship of an experienced faculty investigator. Stipends are funded by CDM or corporate sponsors. The CDM Research Committee and the Office of Research Administration review the applications and select the students who will receive fellowship awards. All fellows write an abstract for publication in the Jarvie Journal and present a poster for the Birnberg Research Program.

Entering first year CDM students:

The opportunity exists to conduct research during the summer prior to beginning dental school. A program of research needs to be developed with a faculty mentor. Currently no stipends are available for entering first year CDM students.

# Research Opportunities Outside of CDM

Opportunities for students to participate in research are available in countless labs, clinics, & medical centers all over the world. To follow are some of the more well recognized and prestigious programs in which CDM students have participated.

# National Institute of Dental and Craniofacial Research (*NIDCR*) Summer Fellowship

<http://www.nidcr.nih.gov/Funding/Training/SummerDentalStudentAward.htm>.

## CDM Contact

Carol Kunzel, PhD; [ck60@columbia.edu](mailto:ck60@columbia.edu)

## NIDCR Contact

Dr. Deborah Philp; [dphilp@dir.nidcr.nih.gov](mailto:dphilp@dir.nidcr.nih.gov)

Director, Office of Education, NIDCR, NIH

Telephone: (301) 594-6578

Funding: NIDCR provides a stipend for a minimum of 8 weeks during the summer. CDM provides support for travel costs.

Application Deadline: January 15

Eligibility: US Citizen or Permanent Resident

This program allows outstanding dental students to spend a summer of training at the NIDCR, located on the NIH campus in Bethesda, Maryland. The program lasts a minimum of 8 weeks during the summer. The NIDCR Summer Dental Student Award is designed to promote the professional careers of talented dental students through exposure to the latest advances in oral health research and administration. Students will be assigned a mentor and research project that corresponds to his or her qualifications and interests. Students will gain hands-on experience in basic or clinical research. Participation may result in presentation of research findings at a scientific meeting and co-authorship of scientific publications.

# National Institutes of Health Summer Research Fellowship Program

<http://www.training.nih.gov/student/srfp/index.asp/>

## *CDM Contact*

*Carol Kunzel, PhD; ck60@columbia.edu*

## *NIH Contact*

[www.training.nih.gov/onlineapps/questions/application/questions.asp?programID=0](http://www.training.nih.gov/onlineapps/questions/application/questions.asp?programID=0)

*Application Deadline: March 1*

*Stipend level: ~\$2,600/month*

This program is open to first-, second-, and third-year medical and dental students who are interested in pursuing careers in biomedical research. The goal of this program is to match the research interests of the student with a laboratory where those interests might be pursued.

The program is designed to provide training in research procedures and principles of independent investigation. Participants will work with senior research scientists located at the Clinical Center, NIH's 240-bed research hospital located in Bethesda, MD; other laboratory facilities on or near the campus; the Addiction Research Center and the Gerontology Research Center in Baltimore, or the Rocky Mountain Laboratories in Hamilton, Montana. In addition to the laboratory experience, students may attend grand rounds, lectures, and seminars to enhance their educational experience. Students are also encouraged to participate in the annual Poster Day for summer interns. The program runs for a minimum of eight weeks, usually from late May to the end of August, some flexibility exists to accommodate individual student needs.

# Howard Hughes Medical Institute- National Institutes of Health (NIH) Research Fellowship Program

<http://www.hhmi.org/cloister/>

## *CDM Contact*

*Carol Kunzel, PhD; ck60@columbia.edu*

*Funding: \$27,000 annual salary (beginning 2008-09). Also provided are medical insurance, reimbursement for moving expenses, funding for conference travel, books, and courses.*

*Application deadline: January 10*

*Dates: Students arrive between July 15 and August 31 and complete the program on approximately June 15 of the following year; requires leave of absence from CDM*

*Eligibility: Applicants must be eligible to work in the U.S. during the entire period of time you would be in the program because Research Scholars are employees of HHMI.*

Interested students are invited to spend 9-12 months in basic science research in a NIH laboratory. Accepted students receive a stipend and fringe benefits as an employee of the Howard Hughes Medical Institute and are housed in an apartment on the NIH campus in Bethesda, Maryland. The program consists of a year of basic, translational or applied biomedical research at the National Institutes of Health in Bethesda, MD for U.S. medical or dental students. Students conduct research under the direct mentorship of senior NIH research scientists and live at the Cloister, the Research Scholars' residence on campus.

# Clinical Research Training Program (CRTP) at the National Institutes of Health (NIH)

<http://www.cc.nih.gov/training/crtp/crtp.html>

## CDM Contact

Carol Kunzel, PhD; [ck60@columbia.edu](mailto:ck60@columbia.edu)

## NIH Contact

Kenneth Williams; [williajk@od.nih.gov](mailto:williajk@od.nih.gov) (888) 695-5343

Felicia Bostic; [bosticf@mail.nih.gov](mailto:bosticf@mail.nih.gov) (888) 695-5343

## Funding:

- CRTP fellows receive an annual stipend of \$30,200. Rent is deducted monthly from the stipend.
- CRTP fellows are reimbursed up to \$1,200 for the purchase of a new computer or to upgrade their own computer; an allowance is also provided for books and FAES courses at the NIH.
- NIH will reimburse the fellow for reasonable costs associated with relocation to the NIH and back to the fellow's school at the end of the fellowship.
- CRTP fellows may attend and be supported for one professional domestic (continental U.S. or Canada) scientific meeting or conference

*Application Deadline: Applications are submitted in early fall for a mid- January deadline.*

*Dates: July 1 or August 1, depending on the students' rotation schedules at their home schools. Programs spans academic year; requires leave of absence from CDM.*

## Eligibility:

- Candidates must be U.S. citizens or permanent residents;
- Candidates must currently be enrolled in medical or dental school and have completed a year of clinical rotations.
- Prior research experience is not a requirement of CRTP, however enthusiasm for and commitment to the objectives of clinical research is highly desirable

The Clinical Research Training Program (CRTP) is a small, year-long program designed to attract the most creative, research-oriented medical and dental students to the intramural campus of the National Institutes of Health in Bethesda, Maryland. Participants, known as fellows, spend a year engaged in a mentored clinical research project in an area that matches their personal interests and goals.

An individualized program is then developed for fellows, who may attend ambulatory clinics, see patients on the wards, and work with a principal investigator in our laboratories on selected clinical research trials. Fellows learn about translational research, that first step from the bench to the bedside; they attend lectures on clinical research; they participate in an interactive, small-group learning experience with the 15 members of the class and leading NIH physicians and scientists.

Fellows can remain at NIH for a second year, depending on support of the sponsoring NIH institute, availability of funds, and permission from the student's home institution.

# University of Rochester Summer Short-Term Research Training Program for Dental Students

<http://www.urmc.rochester.edu/Aab/oralbio/summer.cfm>

## *CDM Contact*

*Carol Kunzel, PhD [ck60@columbia.edu](mailto:ck60@columbia.edu)*

*Funding: Approx. \$3,400;*

*University housing is provided free of charge*

*Application Deadline: March 1*

*Dates: summer, post academic year I*

*Eligibility: Candidates should be matriculated dental students or students accepted into dental school and must be U.S. citizens or permanent residents. Program is intended for members of underrepresented minority groups.*

Summer research opportunities are available for dental students at the University of Rochester School of Medicine and Dentistry. Candidates should be matriculated dental students or students accepted into dental school and must be U.S. citizens or permanent residents. **The 2008 program runs from June 1 through August 15.** Assistance with transportation costs may be available for those who can demonstrate need. Some individual adjustments to these dates may be possible to accommodate dental school schedules or national board exams.

Each student will work closely with a participating faculty member on a project related to oral science in one of the following broad interdisciplinary areas: biochemistry, molecular biology, cell biology, pharmacology, microbiology and immunology, or physiology. In addition, all of the trainees will participate in scientific seminars and workshops. Candidates will be selected on the basis of their application, letters of reference, and academic record. Prior experience in research is not necessary.

# American Association of Dental Research Student Research Fellowships

<http://www.dentalresearch.org/awards/studentresearch.html>

## *CDM Contact*

*Carol Kunzel, PhD; [ck60@columbia.edu](mailto:ck60@columbia.edu)*

## *AADR Contact*

*Sheri S. Herren, Awards, Grants and Fellowships Manager*

*Phone: 703-299-8094; Fax: 703-548-1883; E-mail: [sherren@iadr.org](mailto:sherren@iadr.org)*

*Funding: \$2400 (\$2100 + \$300 for supplies; \$600 in travel expenses also provided)*

*Application Deadline: January 15*

*Dates: Research must be completed within two years*

*Eligibility: DDS candidates, years I - III*

Administered by the AADR and supported by the AADR and several industrial sponsors, these Student Research Fellowships have been created to encourage dental students living in the United States to consider careers in oral health research. Proposals are sought in basic and clinical research related to oral health. Twenty-three fellowships awarded annually. Upon completion of the project and acceptance of an abstract to the AADR meeting, an **additional \$600** is awarded for travel to the AADR meeting for the presentation of the research results. Awards are made to eligible DDS students within the USA who will not receive their degree in the year of the award. Selection criteria include creativity of the project, feasibility and potential significance to oral health research. .

# National Institute of Health Clinical Electives Program

[http://www.cc.nih.gov/training/students/clinical\\_electives.html](http://www.cc.nih.gov/training/students/clinical_electives.html)

## *CDM Contact*

*Carol Kunzel, PhD* [ck60@columbia.edu](mailto:ck60@columbia.edu)

## *NIH Contact*

[cc\\_od\\_ocrtme\\_cep@mail.nih.gov](mailto:cc_od_ocrtme_cep@mail.nih.gov) or (301) 496-9425

*Deadline: at least four months prior to your preferred time of program; applicants are accepted on a continuous basis.*

*Eligibility: Year III & IV DDS & MD candidates, U.S. citizens or permanent residents*

The Clinical Electives Program (CEP) at the National Institutes of Health (NIH) offers a full complement of elective rotations for third- and fourth-year dental and medical students. Rotations are designed to provide first-hand experience in the design, conduct and management of clinical trials at the National Institutes of Health's Clinical Research Center in Bethesda, Maryland. Electives are four- to eight-week rotations in a wide range of clinical disciplines as well as individualized tutorials for students who desire a total research experience. Participants in the clinical electives program will experience a level of exposure to clinical research that is unduplicated elsewhere.

# The David E. Rogers Fellowship Program Summer 2006

<http://www.nyam.org/grants/rogers.shtml>

## *CDM Contact:*

*Carol Kunzel, PhD* [ck60@columbia.edu](mailto:ck60@columbia.edu)

## *New York Academy of Medicine Contact:*

Gerard Lebeda; [rogers@nyam.org](mailto:rogers@nyam.org)

(212) 822-7204

The David E. Rogers Fellowship Program is a national fellowship for medical and dental students in support of a project initiated during the summer between the first and second years of medical or dental school. Up to twenty-five fellowships of approximately \$3,500 will be awarded. The Fellowship is meant to enrich the educational experiences of students through projects that couple medicine and dentistry with the needs of underserved or disadvantaged patients or populations.

**The 2008 deadline for submission of applications is March 21, 2008.**

As such, the Rogers Fellowship supports student project that bear on medicine and dentistry as social enterprises—that is, as enterprises devoted to the capacity of these professions in any and all of their expressions to serve human needs—particularly the needs of underserved or disadvantaged patients or populations. The content of the Fellowship might include clinical investigation, health policy analysis, activities linking biomedicine, the social infrastructure and human need, or community activities. Half the fellowships awarded are dedicated to projects focused on HIV/AIDS prevention or care.

- A meaningful relationship with a mentor genuinely expert in the field of interest of the Fellow is essential.
- Projects should reflect a research question generated by the student.
- The project is to be carried out by the student under the guidance of his or her mentor and should not consist of student assistance in the research of the faculty member.